1. Using an interval or intervals, describe all the x-values within or including a distance of the given values.

$$\text{No more than 3 units from the number } -10.$$

   A. $[-13, -7]$

   B. $(-13, -7)$

   C. $(-\infty, -13] \cup [-7, \infty)$

   D. $(-\infty, -13) \cup (-7, \infty)$

   E. None of the above

2. Using an interval or intervals, describe all the x-values within or including a distance of the given values.

$$\text{Less than 6 units from the number } -6.$$

   A. $[-12, 0]$

   B. $(-\infty, -12) \cup (0, \infty)$

   C. $(-\infty, -12] \cup [0, \infty)$

   D. $(-12, 0)$

   E. None of the above

3. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-7 - 5x \leq \frac{-36x - 4}{8} < 4 - 7x$$

   A. $(a, b]$, where $a \in [-14.25, -9]$ and $b \in [-1.5, 4.5]$

   B. $[a, b)$, where $a \in [-14.25, -12]$ and $b \in [0, 4.5]$

   C. $(-\infty, a) \cup [b, \infty)$, where $a \in [-14.25, -7.5]$ and $b \in [0.75, 3]$

   D. $(-\infty, a] \cup (b, \infty)$, where $a \in [-13.5, -10.5]$ and $b \in [0.75, 4.5]$

E. None of the above.

---

4. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-6 + 9x \leq \frac{84x + 5}{9} < 9 + 3x$$

A. $(-\infty, a) \cup [b, \infty)$, where $a \in [18, 20.25]$ and $b \in [-1.57, -0.15]$

B. $[a, b)$, where $a \in [18, 23.25]$ and $b \in [-6, 0]$

C. $(-\infty, a] \cup (b, \infty)$, where $a \in [17.25, 23.25]$ and $b \in [-2.62, -0.67]$

D. $(a, b]$, where $a \in [18.75, 24]$ and $b \in [-1.8, -0.15]$

E. None of the above.

---

5. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-8 + 6x > 9x \text{ or } -3 + 6x < 9x$$

A. $(-\infty, a) \cup (b, \infty)$, where $a \in [0.75, 5.25]$ and $b \in [0, 5.25]$

B. $(-\infty, a] \cup [b, \infty)$, where $a \in [-6.75, -0.75]$ and $b \in [-3.75, 1.5]$

C. $(-\infty, a) \cup (b, \infty)$, where $a \in [-5.25, 0.75]$ and $b \in [-1.5, 1.5]$

D. $(-\infty, a] \cup [b, \infty)$, where $a \in [0, 3]$ and $b \in [1.5, 6]$

E. $(-\infty, \infty)$

---

6. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$\frac{-9}{2} - \frac{10}{4}x \leq \frac{4}{6}x - \frac{7}{9}$$

A. $[a, \infty)$, where $a \in [0.75, 1.5]$

B. $[a, \infty)$, where $a \in [-2.25, 0.75]$

C. $(-\infty, a]$, where $a \in [0, 6]$

D. $(-\infty, a]$, where $a \in [-2.25, 0]$

E. None of the above.

---

7. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$9 + 3x > 6x \text{ or } 6 + 9x < 10x$$

A. $(-\infty, a) \cup (b, \infty)$, where $a \in [-11.25, -1.5]$ and $b \in [-7.5, 2.25]$

B. $(-\infty, a) \cup (b, \infty)$, where $a \in [-5.25, 4.5]$ and $b \in [5.25, 6.75]$

C. $(-\infty, a] \cup [b, \infty)$, where $a \in [-11.25, -3.75]$ and $b \in [-7.5, 1.5]$

D. $(-\infty, a] \cup [b, \infty)$, where $a \in [0.75, 6]$ and $b \in [2.25, 7.5]$

E. $(-\infty, \infty)$

---

8. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-4x - 6 \geq 6x + 5$$

A. $[a, \infty)$, where $a \in [-0.2, 4]$

B. $(-\infty, a]$, where $a \in [-6.1, 0.9]$

C. $[a, \infty)$, where $a \in [-2.1, 1]$

D. $(-\infty, a]$, where $a \in [-0.9, 3.1]$

E. None of the above.

---

9. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-9x + 5 \leq 3x + 8$$

A. $[a, \infty)$, where $a \in [-0.63, 0]$

    B. $(-\infty, a]$, where $a \in [-1.19, 0]$

    C. $(-\infty, a]$, where $a \in [0, 0.27]$

    D. $[a, \infty)$, where $a \in [-0.18, 0.5]$

    E. None of the above.

10. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$\frac{-7}{9} - \frac{4}{6}x < \frac{6}{5}x + \frac{10}{2}$$

    A. (a, ∞), where $a \in [-9, 0]$

    B. $(-\infty, a)$, where $a \in [-3.75, 0.75]$

    C. $(-\infty, a)$, where $a \in [1.5, 6]$

    D. (a, ∞), where $a \in [3, 5.25]$

    E. None of the above.